

Applicant: Phillip J. Roux et al
U.S.S.N.: 10/812,490
Filing Date: 3/30/2004
EMC Docket No.: EMC-04-010

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A data storage system comprising:
a disk drive assembly including a plurality of disk drives;
a first processor for controlling access to the disk drive assembly;
a second processor for controlling access to the disk drive assembly;
a first power supply for supplying power to the first processor and to the disk drive assembly; and
a second power supply for supplying power to the second processor and to the disk drive assembly;
wherein the first power supply and the second power supply each include a first voltage output, the data storage system further including a first bus coupled between the first voltage output of the first power supply, the first voltage output of the second power supply and at least a portion of the plurality of disk drives of the disk drive array; and
wherein the first power supply and the second power supply each include a second voltage output, the data storage system further including a second bus coupled between the second voltage output of the first power supply, the second voltage output of the second power supply and at least a portion of the plurality of disk drives of the disk drive array.
2. (Canceled)
3. (Canceled)
4. (Currently amended) The data storage system of claim ~~[[3]]~~ 1 wherein the first power supply and the second power supply each include a third voltage output, wherein the third

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voltage output of the first power supply supplies power to the first processor and the third voltage output of the second power supply supplies power to the second processor.

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Original) The data storage system of claim 1 further comprising a first circuit protection device coupled between the first power supply and the disk drive assembly.

9. (Original) The data storage system of claim 8 further comprising a second circuit protection device coupled between the second power supply and the disk drive assembly.

10. (Original) The data storage system of claim 9 wherein the first and second circuit protection devices comprise at least one of a power source fault protection device and a load fault protection device.

11-17 (Canceled)

18. (Currently amended) A redundant power supply system comprising:

a circuit subsystem;

a first device for controlling access to the circuit subsystem;

a second device for controlling access to the circuit subsystem;

a first power supply for supplying power to the first device and to the circuit subsystem;

and

a second power supply for supplying power to the second device and to the circuit subsystem;

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wherein the first power supply and the second power supply each include a first voltage output, the redundant power supply system further including a first bus coupled between the first voltage output of the first power supply, the first voltage output of the second power supply and the circuit subsystem; and

wherein the first power supply and the second power supply each include a second voltage output, the redundant power supply system further including a second bus coupled between the second voltage output of the first power supply, the second voltage output of the second power supply and the circuit subsystem.

19. (Canceled)

20. (Canceled)

21. (Currently amended) The redundant power supply system of claim [[20]] 18 wherein the first power supply and the second power supply each include a third voltage output, wherein the third voltage output of the first power supply supplies power to the first device and the third voltage output of the second power supply supplies power to the second device.

22. (Currently amended) A method of supplying power to a disk drive system comprising:

A. supplying, over a first bus, power from a first power supply voltage output of a first power supply and a first voltage output of a second power supply to a disk drive assembly including a plurality of disk drives;

B. supplying power from the first power supply to a first processor which controls access to the disk drive assembly;

C. supplying, over a second bus, power from a second power supply voltage output of the first power supply and a second voltage output of the second power supply to the disk drive assembly; and

D. supplying power from the second power supply to a second processor which controls access to the disk drive assembly.

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23. (Canceled)

24. (Canceled)

25. (Currently amended) The method of claim [[24]] 22 further comprising supplying power from a third voltage output of the first power supply to the first processor and supplying power from a third voltage output of the second power supply to the second processor.

26. (Original) The method of claim 22 further comprising supplying power to the disk drive assembly with one of the first and second power supplies when the other of the first and second power supplies becomes disabled.

27. (Currently amended) A data storage system comprising:
a disk drive assembly including a plurality of disk drives;
a first circuit subsystem;
a second circuit subsystem;
a first power supply for supplying power to the first circuit subsystem and to the disk drive assembly; and
a second power supply for supplying power to the second circuit subsystem and to the disk drive assembly;

wherein the first power supply and the second power supply each include a first voltage output, the data storage system further including a first bus coupled between the first voltage output of the first power supply, the first voltage output of the second power source and at least a portion of the plurality of disk drives of the disk drive array; and

wherein the first power supply and the second power supply each include a second voltage output, the data storage system further including a second bus coupled between the second voltage output of the first power supply, the second voltage output of the second power supply and at least a portion of the plurality of disk drives of the disk drive array.

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28. (Canceled)

29. (Canceled)

30. (Currently amended) The data storage system of claim [[29]] 27 wherein the first power supply and the second power supply each include a third voltage output, wherein the third voltage output of the first power supply supplies power to the first circuit subsystem and the third voltage output of the second power supply supplies power to the second circuit subsystem.

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (Original) The data storage system of claim 27 further comprising a first circuit protection device coupled between the first power supply and the disk drive assembly.

35. (Original) The data storage system of claim 34 further comprising a second circuit protection device coupled between the second power supply and the disk drive assembly.

36. (Currently amended) The data storage system of claim 35 wherein the first and second circuit protection devices comprise at least one of a power ~~source~~ supply fault protection device and a load fault protection device.